

Title (en)
Improved biological effects of rosmarinic acid

Title (de)
Verbesserte biologische Effekte von Rosmarinsäure

Title (fr)
Effets biologiques améliorée de l'acide rosmarinique

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Application
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Priority
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Abstract (en)
The present invention relates to compositions comprising rosmarinic acid and/or its derivatives and to the use of a hydrolytic enzyme or of microorganism containing hydrolytic enzymes in these compositions. The invention also pertains to methods for improving the biological effects of said rosemary extracts.

IPC 8 full level
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Citation (search report)

- [X] US 2005037094 A1 20050217 - YAN XIJUN [CN], et al
- [X] US 2006172402 A1 20060803 - HAVKIN-KRENKEL DAPHNA J [US], et al
- [A] WO 2004058282 A2 20040715 - SILAB SA [FR], et al & ITALIAN JOURNAL OF FOOD SCIENCE, vol. 8, no. 2, 1996, pages 127 - 135, ISSN: 1120-1770
- [X] AL-SEREITI M R ET AL: "PHARMACLOGY OF ROSEMARY (ROSMARINUS OFFICINALIS LINN) AND ITS THERAPEUTIC POTENTIALS", INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY, vol. 37, February 1999 (1999-02-01), pages 124 - 130, XP002909319, ISSN: 0019-5189
- [X] DATABASE WPI Week 200419, Derwent World Patents Index; AN 2004-199501, XP002425800
- [X] WOJCIECHOWSKI H ET AL: "Analysis of the components of Lycopodium europaeus L. in body fluids during metabolism studies Comparison of capillary electrophoresis and high-performance liquid chromatography", JOURNAL OF CHROMATOGRAPHY A, ELSEVIER, AMSTERDAM, NL, vol. 717, no. 1, 24 November 1995 (1995-11-24), pages 261 - 270, XP004038549, ISSN: 0021-9673
- [A] LU Y ET AL: "Polyphenolics of Salvia-a review", PHYTOCHEMISTRY, PERGAMON PRESS, GB, vol. 59, no. 2, January 2002 (2002-01-01), pages 117 - 140, XP004332841, ISSN: 0031-9422
- [A] DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1996, GOBBETTI M ET AL: "Esterolytic and lipolytic activities of mesophilic and thermophilic lactobacilli", XP002425763, Database accession no. PREV199699150347
- [A] DONAGHY J ET AL: "Detection of ferulic acid esterase production by Bacillus spp. and lactobacilli", APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, SPRINGER VERLAG, BERLIN, DE, vol. 50, 1998, pages 257 - 260, XP002356885, ISSN: 0175-7598
- [DA] KONISHI YUTAKA ET AL: "Pharmacokinetic study of caffeic and rosmarinic acids in rats after oral administration.", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY 15 JUN 2005, vol. 53, no. 12, 15 June 2005 (2005-06-15), pages 4740 - 4746, XP002425756, ISSN: 0021-8561
- [A] RECHNER ANDREAS R ET AL: "The metabolic fate of dietary polyphenols in humans.", FREE RADICAL BIOLOGY & MEDICINE 15 JUL 2002, vol. 33, no. 2, 15 July 2002 (2002-07-15), pages 220 - 235, XP002425757, ISSN: 0891-5849
- [A] KONISHI YUTAKA ET AL: "Trans epithelial transport of rosmarinic acid in intestinal Caco-2 cell monolayers.", BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY MAR 2005, vol. 69, no. 3, March 2005 (2005-03-01), pages 583 - 591, XP002425758, ISSN: 0916-8451
- [DA] BABA S ET AL: "Absorption, metabolism, degradation and urinary excretion of rosmarinic acid after intake of Perilla frutescens extract in humans", EUROPEAN JOURNAL OF NUTRITION, STEINKOPFF-VERLAG, DA, vol. 44, no. 1, 1 January 2005 (2005-01-01), pages 1 - 9, XP019383030, ISSN: 1436-6215

Cited by
WO2016057818A1; WO2015095545A1; WO2013190068A1; US9801915B2; US10912803B2

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